

Site Name: U.S. BRONZE POWDERS

CERCLIS ID No.: D002344190 Street Address: ROUTE 202N

City/State/Zip: RARITAN TOWNSHIP, NJ 08822

Investigator: DONNA J. VAN VELDHUISEN

Agency/Organization: NJDEPE/DRPSR/BSA Street Address: 300 HORIZON CENTER City/State: ROBBINSVILLE, NJ

Date: 10-23-91

OMB Approval Number: 2050-0095 Approved for Use Through: 1/92

		<del></del>	<del></del>		
POTENTIAL HAZARDOUS		ID	ENTIF	PICATIO	<b>N</b>
WASTE SITE		State:	1	RCLIS No 0023441	
PRELIMINARY ASSESSMENT FORM		CERCLIS	Disc	covery 1	Date:
1. General Site Information					
Name: U.S. BRONZE POWDERS	Street Add ROUTE 202				
City: State RARITAN TOWNSHIP NJ	: Zip Code: 08822	County		Co. Code:	Cong. Dist:
40° 30' 21.0" 74° 54' 33.0"	. Area of Site 22 acres	Status Activ		Site:	
2. Owner/Operator Information	<del></del>				
Owner: U.S. BRONZE POWDERS	Operator: U.S. BRONZ	E POWDERS	;		i,
Street Address: ROUTE 202N	Street Addr ROUTE 202N				
City: RARITAN TOWNSHIP	City: RARITAN TO	)WNSHIP			
State: Zip Code: Telephone: 908-782-5454	State: Zi NJ 088	p Code:		ephone: 8-782-5	
Type of Ownership: Private	How Initial State/Loca	_		8	•

		v			II	ENTIFICA	TION
POTENTIAL HAZA	RDOUS			•	State: NJ	J	S Number: 44190
PRELIMINARY AS	SESSMENT	FORM			CERCLIS	S Discove	ry Date:
3. Site Evaluator Inf	ormation				•		
Name of Evaluator: DONNA J. VAN VELDHUI	SEN	,	_	nization: SR/BSA		3	repared: !3-91
Street Address: 300 HORIZON CENTER			Cit	y: BBINSVILI	LE		State: NJ
Name of EPA or State KENNETH J. KLOO	Agency Co	ontact:		ephone: 19-584-421	30		
Street Address: 300 HORIZON CENTER		,	Cit	:y: OBBINSVIL	LE		State: NJ
4. Site Disposition (	for EPA	use only	)	•			
Emergency Response/Removal Assessment Recommendation: No	Lower P	ndation: riority	SI	Signatu Name: DONNA Positio HSMS I	VAN VELD	HUISEN	

	IDENTIFICATION
POTENTIAL HAZARDOUS	
WASTE SITE	State: CERCLIS Number: NJ D002344190
PRELIMINARY ASSESSMENT FORM	CERCLIS Discovery Date:
5. General Site Characteristics	
Predominant Land Uses Within  1 Mile of Site:  Commercial  Residential  Agricultural	g: Years of Operation: Beginning Year: 1957 Ending Year: 1991
Agricultur	
Type of Site Operations:  Manufacturing  Primary Metals	Waste Generated: Onsite
Metal Coatings, Plating, Engraving	Waste Deposition Authorized By: Present Owner
	Waste Accessible to the Public
	Distance to Nearest Dwelling, School, or Workplace: 400 Feet
6. Waste Characteristics Information	
	neral Types of Waste: Metals Solvents Oily Waste
	•
	ysical State of Waste as Deposited Liquid Powder
Tier Legend C = Constituent W = Wastestream V = Volume A = Area	

		IDE	ENTIFICATI	ON
POTENTIAL HAZARDO WASTE SITE	State:	CERCLIS D002344		
PRELIMINARY ASSES	SMENT FORM	CERCLIS	Discovery	Date:
7. Ground Water Pathway				
Is Ground Water Used for Drinking Water Within 4 Miles: Yes	Is There a Suspected Release to Ground Water: Yes	Population	ondary Tar on Served ater With	рÀ
Type of Ground Water Wells Within 4 Miles:	Have Primary Target Drinking Water Wells Been Identified: Yes  Primary Target Population: 3  Nearest Designated Wellhead Protection Area: None within 4 Miles	>1/4 - 1 >1/2 - 1 >1 - 2 >2 - 3	•	0 212 3120 5645 5769 10576 25322

Page: 5

		IDI	ENTIFICA	ATION	
POTENTIAL HAZARDOÚS WASTE SITE		State:		S Numb 344190	er:
PRELIMINARY ASSESSMENT FORM		CERCLIS	Discove	ery Dat	e:
8. Surface Water Pathway			Part 1	of 4	
Type of Surface Water Draining Site and 15 Miles Downstream: Stream	Shortest Overla Source to Surfa		ce From	Any	
River Lake		50 Feet			
			•		
Is there a Suspected Release to Surface Water: Yes	Site is Located > 500 yr fl			1	
8. Surface Water Pathway			Part 2	of 4	
Drinking Water Intakes Along the S	Surface Water Mig	ration Pa	th: No		
Have Primary Target Drinking Water	Intakes Been Id	entified:	No		
•					
Secondary Target Drinking Water In	takes:		,	•	
Secondary Target Drinking Water Ir None	itakes:				
	takes:				
	takes:				
	takes:				•

POTENTIAL HAZARDOUS

WASTE SITE

WASTE SITE

PRELIMINARY ASSESSMENT FORM

IDENTIFICATION

State: CERCLIS Number:
NJ D002344190

CERCLIS Discovery Date:

8. Surface Water Pathway

Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: Yes

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:

Fishery Name Water Body Type/Flow(cfs)

BUSHKILL BROOK small-moderate stream/ 10-100

SO. BRANCH RARITAN R large stream/river/ >1000-10000

RARITAN RIVER large stream/river/ >1000-10000

8. Surface Water Pathway

Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) Yes

Have Primary Target Wetlands Been Identified? (y/n) No

Secondary Target Wetlands:

Water Body/Flow(cfs) Frontage(mi)

large stream/river/ >1000-10000 >16 to 20

Other Sensitive Environments Along the Surface Water Migration Path: No

Have Primary Target Sensitive Environments Been Identified: No

Secondary Target Sensitive Environments:

None

IDENTIFICATION POTENTIAL HAZARDOUS State: CERCLIS Number: NJ D002344190 WASTE SITE CERCLIS Discovery Date: PRELIMINARY ASSESSMENT FORM

#### 9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination: Total Resident Population: 3

Number of Workers Onsite:

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination: No

#### 10. Air Pathway

	or Within:	Is There a Suspected Release to Air: Ye	es
Onsite	0		
0 - 1/4 Mile	. 35	Wetlands Located	
>1/4 - 1/2 Mile	312	Within 4 Miles of the Site: No	0
>1/2 - 1 Mile	2574		
>1 - 2 Miles	6562		
>2 - 3 Miles	5169	Other Sensitive Environments Located	
>3 - 4 Miles	10576	Within 4 Miles of the Site: No	o
Total	25228		

Sensitive Environments Within 1/2 Mile of the Site: None

### WASTE CHARACTERISTICS

Waste Characteristics	s (WC) Calculations:		
1 4 USTS	Non-drum containers	WQ value	maximum
Volume	2.10E+04 gals	4.20E+01	4.20E+01
2 3 AGSTS	Non-drum containers	WQ value	maximum
Volume	8.75E+02 gals	1.75E+00	1.75E+00
3 DRUMS	Drums	WQ value	maximum
Volume	1.00E+01 drums	1.00E+00	1.00E+00

WQ total 4.48E+01

#### Ground Water Pathway Criteria List Suspected Release Are sources poorly contained? (y/n/u)Is the source a type likely to contribute to ground water contamination Y (e.g., wet lagoon)? Is waste quantity particularly large? (y/n/u)N Is precipitation heavy? (y/n/u)N Is the infiltration rate high? (y/n/u)Is the site located in an area of karst terrain? (y/n)N Is the subsurface highly permeable or conductive? (y/n/u)N Is drinking water drawn from a shallow aquifer? (y/n/u)N Are suspected contaminants highly mobile in ground water? (y/n/u)N Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)Y Other criteria? (y/n)SUSPECTED RELEASE? (y/n)Y. Summarize the rationale for Suspected Release: SAMPLING OF THE ON-SITE MONITORING WELLS HAS INDICATED GROUNDWATER CONTAMINATION.

•	
Ground Water Pathway Criteria List Primary Targets	
Is any drinking water well nearby? (y/n/u)	Y
Has any nearby drinking water well been closed? $(y/n/u)$	<b>N</b> .
Has any nearby drinking water well user reported foul-testing or foul-smelling water? $(y/n/u)$	U
Does any nearby well have a large drawdown/high production rate? $(y/n/u)$	N
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? $(y/n/u)$	N
Does analytical or circumstantial evidence suggest contamination at a drinking water well? $(y/n/u)$	Y
Does any drinking water well warrant sampling? (y/n/u)	¥
Other criteria? (y/n) N	
PRIMARY TARGET(S) IDENTIFIED? (y/n)	Y
Summarize the rationale for Primary Targets:	
A DRINKING WATER WELL IS LOCATED AT THE FARMHOUSE APPROXIMATELY 400 FEET FROM THE SITE. THE HOUSE IS DOWNSLOPE FROM THE SITE.	

#### GROUND WATER PATHWAY SCORESHEETS

·		Ref					
Do you suspect a release? (y/n) Yes							
errain? (y/n)	No	)					
	50	)					
ng water well	(feet): 40	00					
Suspected Release	No Suspected Release	Reference					
550							
	0						
550		**************************************					
	errain? (y/n)  ng water well  Suspected Release  550	errain? (y/n)  50  50  Ing water well (feet):  Suspected Release  550  0					

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 3 person(s)	30		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) Y	470	0	
5. NEAREST WELL	50	0	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	5	0	
T =	555	0	

WASTE	CHARACTERISTICS	3				<u> </u>	
	,		WC	=	 32		0
GROUNI	WATER PATHWAY	SCORE:			1	.00	

### Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
1 FARMHOUSE	0.08	3 .		30
			Total	30

econdary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	212		10
Greater than 1/2 to 1 mile	3120		167
Greater than 1 to 2 miles	5645		94
Greater than 2 to 3 miles	5769		68
Greater than 3 to 4 miles	10576		131
		Total	470

Apportionment Documentation for a Blended System

FLEMINGTON BOROUGH HAS TWO WELLS 0.8 MILE FROM THE SITE AND TWO WELLS 1 TO 2 MILES FROM THE SITE. THE BOROUGH SERVES APPROXIMATELY 4240 PEOPLE.

### Surface Water Pathway Criteria List Suspected Release

Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is the drainage area large? (y/n/u)	Y
Is rainfall heavy? (y/n/u)	N
Is the infiltration rate low? (y/n/u)	¥
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	¥
Is a runoff route well defined(e.g.ditch/channel to surf.water)? $(y/n/u)$	Y
Is vegetation stressed along the probable runoff path? $(y/n/u)$	Y
Are sediments or water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	Y
Is ground water discharge to surface water likely? (y/n/u)	N
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	Y
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	Y

Summarize the rationale for Suspected Release:

THE UNNAMED TRIBUTARY WHICH IS ADJACENT AND DOWNSLOPE OF THE SITE HAS BEEN FOUND TO HAVE SEDIMENT CONTAMINATION WITH COPPER.

# Surface Water Pathway Criteria List Primary Targets Is any target nearby? (y/n/u)If yes: N Drinking water intake N Fishery N Sensitive environment Has any intake, fishery, or recreational area been closed? (y/n/u)N Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u)Does any target warrant sampling? (y/n/u) If yes: N. N Drinking water intake N Fishery N Sensitive environment Other criteria? (y/n)PRIMARY INTAKE(S) IDENTIFIED? (y/n) Summarize the rationale for Primary Intakes: continued ----

Page:

continued	
Other criteria? (y/n)	N
	PRIMARY FISHERY(IES) IDENTIFIED? (y/n)
Summarize the rationale for	r Primary Fisheries:
Other criteria? (y/n)	N
PRIMARY S	ENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n)
Summarize the rationale for	or Primary Sensitive Environments:

Page: 10

#### SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics				Ref.
Do you suspect a release? (y/n)	s			
Distance to surface water (feet	):	50	)	
Flood frequency (years):		>5	500	
What is the downstream distance (miles) to:  a. the nearest drinking water intake?  b. the nearest fishery?  c. the nearest sensitive environment?  1.4				
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refe	rences
1. SUSPECTED RELEASE	550			
2. NO SUSPECTED RELEASE		0		
LR =	550	0	***************************************	

#### Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION O person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	5	0	
T =	5	0	

#### Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Valu
None					
		-			
		otal Primary Target Popotal Secondary Target P		1	. 0

Apportionment	Documentation for	or a Blended System	
			: .

#### Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	210	0	
T =	210	0	

#### Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 BUSHKILL BROOK	Ŋ	10-100 cfs		30
2 SO. BRANCH RARITAN RIVER	N	>1000-10000 cfs	,	12
3 RARITAN RIVER	N	>1000-10000 cfs		12
			·	
				,
				;
		Primary Fisheries Values Value	12	0 54

#### Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	10	0	
Т =	10	0	

#### Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 SO.BRANCH RARITAN WETLAND	N	>1000-10000 cfs	9	12
Total Pri	mary Sen	<u>!</u> sitive Environments Val ensitive Environments V	ue alve	0

#### Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	550	5	18	1
Human Food Chain	550	210	18	25
Environmental	550	10	18	1

SURFACE WATER PATHWAY SCORE: 27

Soil Exposure Pathway Criteria List Resident Population	
Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? $(y/n/u)$	Y
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? $(y/n/u)$	N
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? $(y/n/u)$	N
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? $(y/n/u)$	N
Does any neighboring property warrant sampling? (y/n/u)	Y
Other criteria? (y/n) N	
RESIDENT POPULATION IDENTIFIED? (y/n)	¥
Summarize the rationale for Resident Population:	
COPPER CONTAMINATION WAS DETECTED ON THE FARMHOUSE PROPERTY ADJACENT TO THE SITE. IT IS BELIEVED THAT THE CONTAMINATION IS DUE TO AIRBORNE PARTICULATES DEPOSITING ONTO THE PROPERTY.	

Page: 17

hway Characteristics				Ref.
Do any people live on or within of areas of suspected contamin			Yes	
Do any people attend school or of areas of suspected contamin		vithin 200 ft	Yes	
Is the facility active? (y/n):	· · · · · · · · · · · · · · · · · · ·		Yes	
LIKELIHOOD OF EXPOSURE	Suspected Contamination	References		
1. SUSPECTED CONTAMINATION LE =	550		,	
gets				
<pre>2. RESIDENT POPULATION</pre>	30		•	
3. RESIDENT INDIVIDUAL	50		. "	
4. WORKERS 1 - 100	5		:	
5. TERRES. SENSITIVE ENVIRONMENTS	0			
6. RESOURCES	5			
T =	90			
STE CHARACTERISTICS			l	•
WC =	18	;		
SIDENT POPULATION THREAT SCORE:	11		•	

NEARBY POPULATION THREAT SCORE:

1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE:

12

### Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		
Total Terrestrial Sensitive Envir	onments Value	

Air Pathway Criteria List Suspected Release			
Are odors currently repo	orted? (y/n/u) N		
Has release of a hazardo	ous substance to the air		
	been directly observed? (y/n/u) Y		
	verse health effects (e.g., headaches,		
	stentially resulting from migration ardous substances through the air? $(y/n/u)$		
	cantial evidence suggest release to air? (y/n/u) Y		
Other criteria? (y/n)	N ,		
e transfer in the second	SUSPECTED RELEASE? (y/n) Y		
Summarize the rationale f	For Suspected Release:		
COPPER CONTAMINATION ON TO AIRBORNE PARTICULATE	N THE ADJACENT PROPERTY IS BELIEVED TO BE DUE ES FROM THE SITE.		
•			

Page: 20

#### AIR PATHWAY SCORESHEETS

thway Characteristics			Ref.
Do you suspect a release? (y/n)		Ye	8
Distance to the nearest individual (feet):		40	0
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	
rgets			
TARGETS	Suspected Release	No Suspected . Release	References
3. PRIMARY TARGET POPULATION 35 person(s)	350		
4. SECONDARY TARGET POPULATION	12	0	
5. NEAREST INDIVIDUAL	50	0	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	0	
8. RESOURCES	5	0	
Т =	417	0	
			<b>-</b> 1
ASTE CHARACTERISTICS WC =	32	0	
AIR PATHWAY SCORE:		89	

### Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	N.A.		0
Greater than 0 to 1/4 mile	N.A.	·	Ò
Greater than 1/4 to 1/2 mile	312		3
Greater than 1/2 to 1 mile	2574		3
Greater than 1 to 2 miles	6562		3
Greater than 2 to 3 miles	5169		1
Greater than 3 to 4 miles	10576		. 2
	Total Secondary Popul	ation Value	12

### Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		
Total Primary Sensitive Environme	ents Value	

### Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
None			
		-	

ITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	100
SURFACE WATER PATHWAY SCORE:	27
SOIL EXPOSURE PATHWAY SCORE:	12
AIR PATHWAY SCORE:	89
SITE SCORE:	69

#### SÜMMARY

 Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water?

Yes

If yes, identify the well(s).

THE NEIGHBORING FARMHOUSE WELL MAY NEED TO BE SAMPLED.

If yes, how many people are served by the threatened well(s)? 3

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?

A. Drinking water intake

No

B. Fishery

No

C. Sensitive environment (wetland, critical habitat, others)

No

If yes, identity the target(s).

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? Yes

If yes, identify the properties and estimate the associated population(s)
THE ADJACENT FARMHOUSE IS ESTIMATED TO HAVE THREE
RESIDENTS.

4. Are there public health concerns at this site that are not addressed by PA scoring considerations?

No

If yes, explain: